## ABSTRACT

An electric motor with a Hall effect module. An endframe is attached to a motor housing to enclose one end of the motor housing. A cover is snap-fit onto the endframe externally of the motor housing, wherein resilient fingers on the endframe engage an arrangement of lugs and/or recesses on the cover. A one-piece magnet/carrier assembly and an electronic sensor are captured between the cover and the endframe to provide a Hall effect sensing feature. Optionally, the cover may be attached to the endframe without the magnet/carrier assembly and the electronic sensor when the Hall effect sensing feature is not desired. The endframe additionally includes rigid walls disposed about the resilient fingers which aid in locating and guiding the cover onto the endframe and into engagement with the resilient fingers. After the cover is attached to the endframe, the walls protect the resilient fingers and abut the outside surface of the cover, providing a robust connection between the cover and endframe and preventing disengagement of the cover from the endframe.